KENNEDY VALVE

KENNEDY CHECK VALVES

CERTIFICATIONS

ISO 9001

ISO 14001

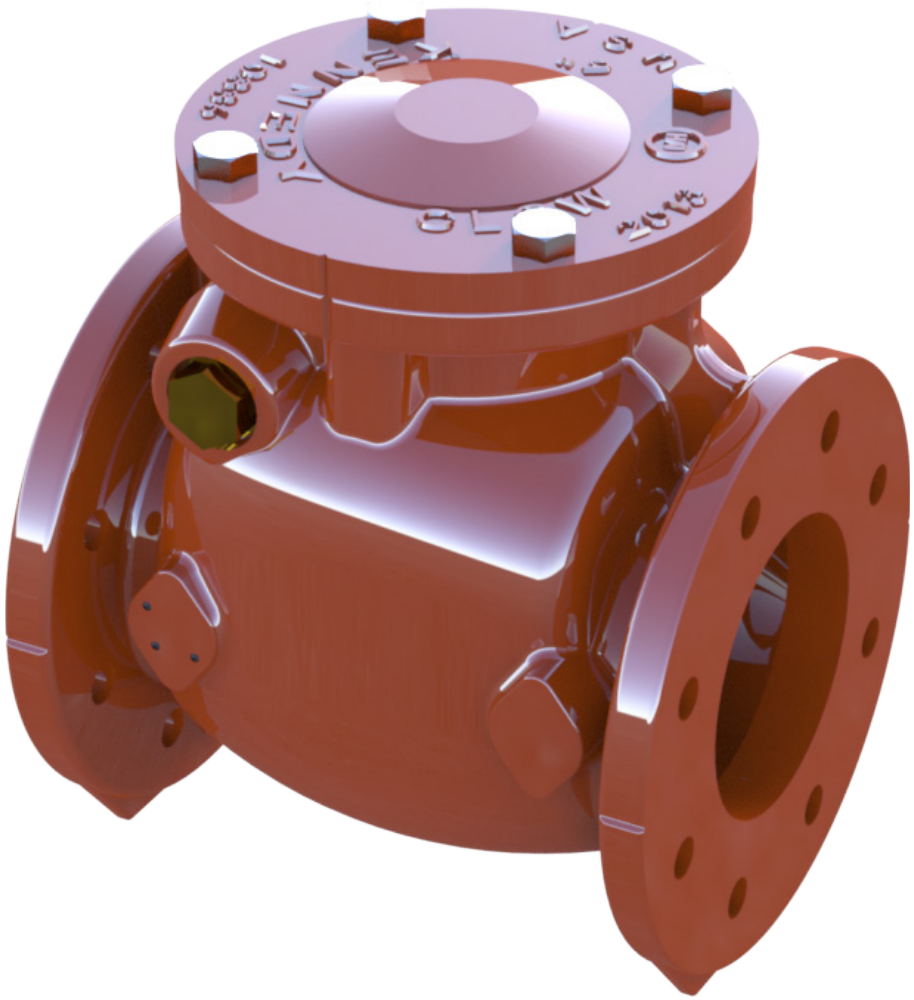
BS OHSAS 18001

FM APPROVED

c UL us LISTED

NSF*

*PRODUCT LISTINGS SPECIFIC TO PRODUCT



MADE IN USA

140 YEARS

WWW.KENNEDYVALVE.COM

McWANE For Generations

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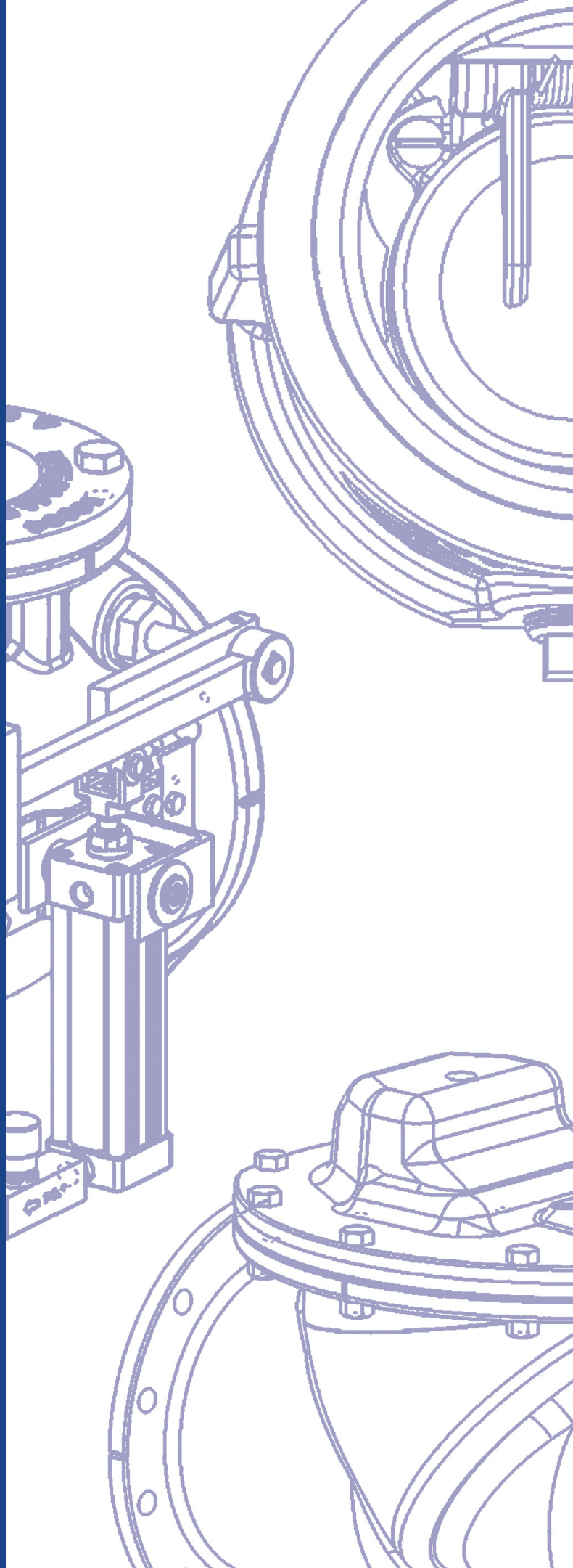
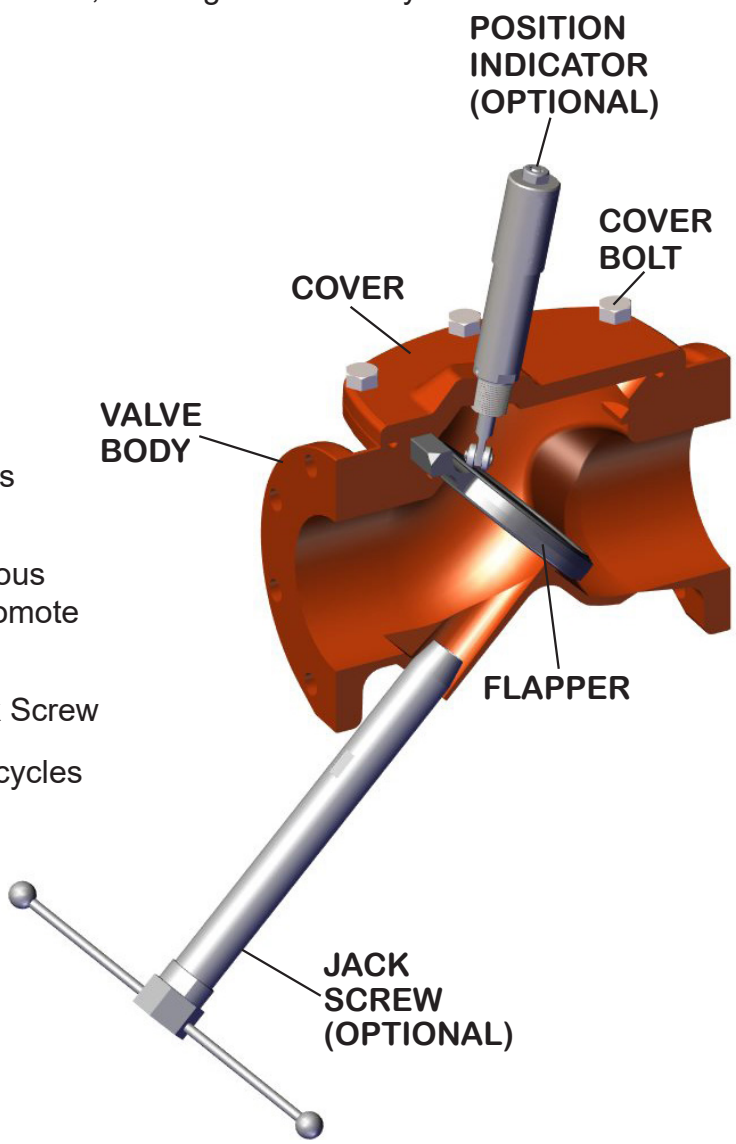


Ken-Flex Check Valve - Figure 506

The Ken-Flex Resilient Hinged Check Valve eliminates most problems associated with swing check valves. Because of its simplicity, it is ideal for “dirty water” applications. The addition of the position indicator not only provides flapper location feedback but also acts as a surge preventer. The position indicator is spring loaded, causing the flapper to quickly close in the event of loss of flow. The Jack Screw option allows the Check Valve to be back flushed, clearing the waterway.

Features

- 4”-12” sizes available
- A.W.W.A. C508
- ASME B16.1 Class 125 Flanges
- 100% Flow Area
- Ductile Iron Body and Cover
- Weighted Disc
- Quiet operation with Non-Slam design
- Optional Position Indicator provides continuous feedback of flapper position (506-SP)
- Surge Prevention is accomplished via continuous spring forced applied against the flapper to promote accelerated closer (506-SP)
- Back flushing through the use of optional Jack Screw
- The Ken-Flex has been tested for one million cycles and still maintained a bubble tight seal.



Rated Pressure: 250 PSI

Test Pressure: Seat 400 PSI, Shell 500 PSI

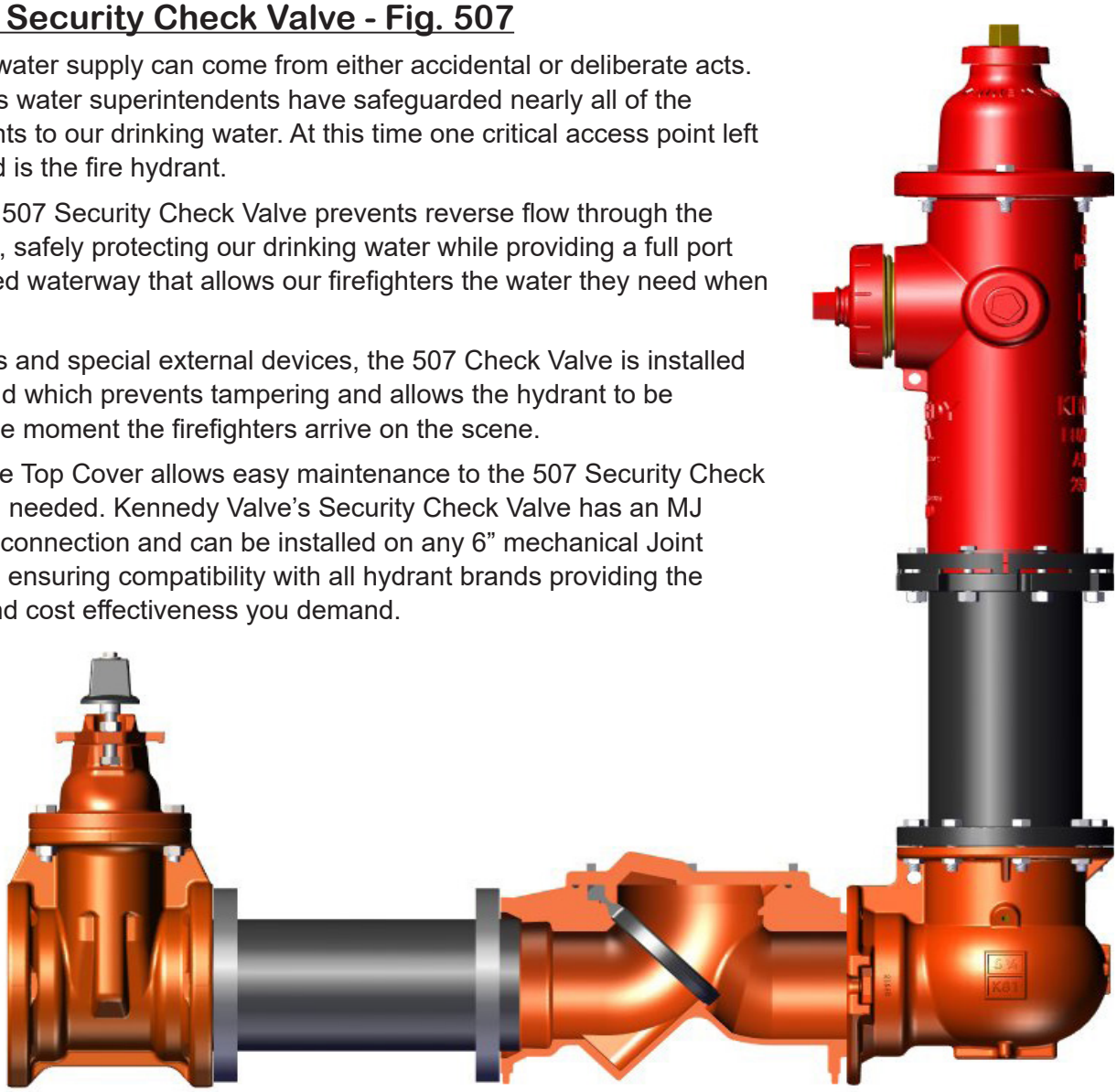
Hydrant Security Check Valve - Fig. 507

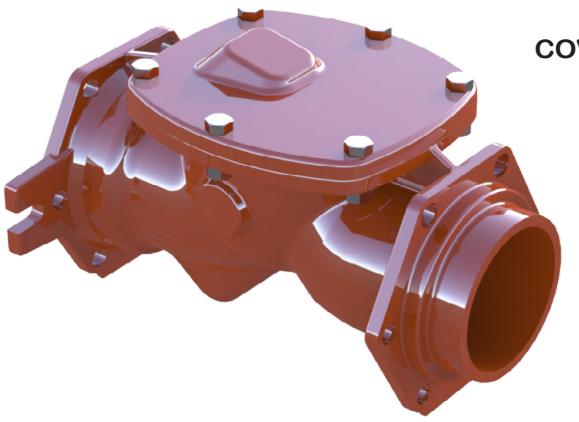
Threats to water supply can come from either accidental or deliberate acts. Our nation's water superintendents have safeguarded nearly all of the access points to our drinking water. At this time one critical access point left unprotected is the fire hydrant.

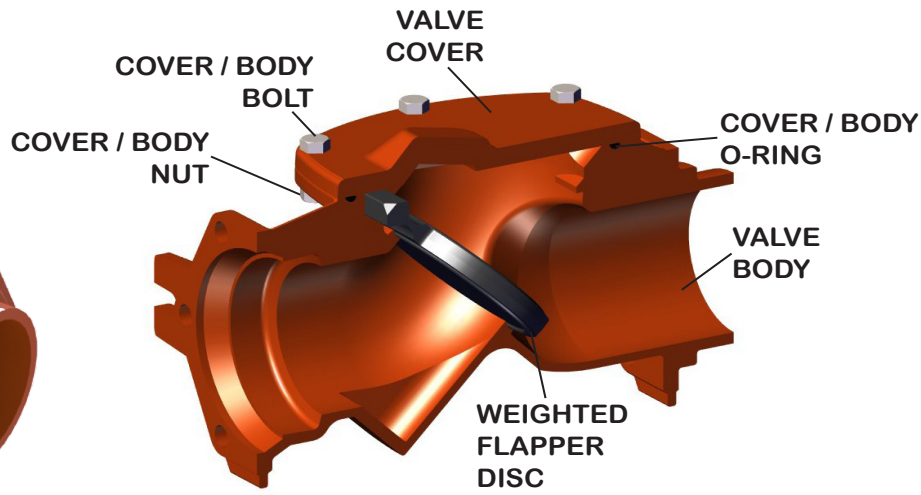
The Figure 507 Security Check Valve prevents reverse flow through the fire hydrant, safely protecting our drinking water while providing a full port unobstructed waterway that allows our firefighters the water they need when needed.

Unlike locks and special external devices, the 507 Check Valve is installed underground which prevents tampering and allows the hydrant to be operated the moment the firefighters arrive on the scene.

A removable Top Cover allows easy maintenance to the 507 Security Check Valve when needed. Kennedy Valve's Security Check Valve has an MJ x Stab end connection and can be installed on any 6" mechanical Joint Connection ensuring compatibility with all hydrant brands providing the flexibility and cost effectiveness you demand.







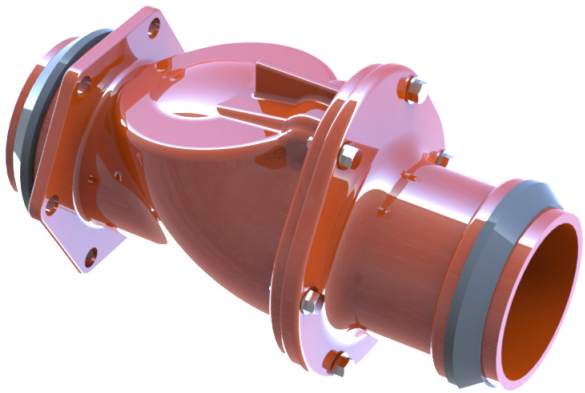
PATRIOT CHECK VALVE - FIGURE 906

Patriot Check Valve - Figure 906

Threats to water supply can come from either accidental or deliberate acts. Our nation's water superintendents have safeguarded nearly all of the access points to our drinking water. At this time one critical access point left unprotected is the fire hydrant.

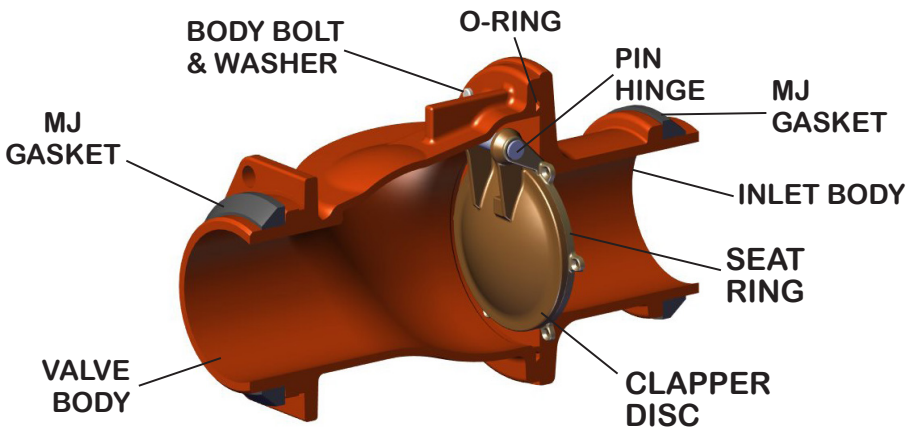
The Patriot Hydrant Check Valve prevents reverse flow through the fire hydrant, safely protecting our drinking water while providing a full port unobstructed waterway that allows our firefighters the water they need when they need it.

Unlike locks and special external devices, the Patriot is installed underground which prevents tampering and allows the hydrant to be operated the moment the firefighters arrive on the scene. The Patriot check valve can be installed on any 6" mechanical joint connection, ensuring compatibility with all hydrant brands—providing the flexibility and cost effectiveness you demand.



Specifications

1. The Patriot Fire Hydrant Check Valve shall be manufactured to all of the testing and performance standards of AWWA C508 and AWWA C550. The Check Valve shall be designed for 250 PSI working pressure and tested to 500 PSI hydrostatic pressure.
2. The Check Valve shall be a stand alone unit able to be positively restrained to any 6" mechanical joint fire hydrant shoe.
3. The Check Valve shall be ductile iron ASTM Standard A536 (70-50-05), with NSF approved fusion bonded epoxy coating (interior / exterior).
4. The Check Valve shall be lead free, with no exposed lead bearing surfaces.
5. The Check Valve shall have an unobstructed waterway. No reduction of port or redirection of flow will be allowed.
6. The seat shall be retained via a double dove tail o-ring retaining groove design to ensure a positive seal.
7. The Check Valve shall incorporate integral positive restraint connections that maintain a restrained connection between the fire hydrant and the gate valve
8. The Check Valve shall incorporate a stainless steel spring that hastens positive closure and prevents water hammer.
9. All fasteners shall be 304 stainless steel and all interior rubber components shall be EPDM rubber.
10. The Check Valve shall be produced with no less than 80% post consumer recycled content while being cast, manufactured, assembled and tested in the United States.



A.W.W.A. SWING CHECK VALVE FIGURE 1106 & 106

A.W.W.A. Swing Check Valve - Figure 1106 & 106 Series

Kennedy Swing Check Valves are designed and manufactured in conformance with A.W.W.A. C508 and are for use on water, oil, and gas lines. Under certain circumstances where it is desirable to have more positive control of the closing on the disc, the valves can be supplied with either level-and-spring or level-and-weight. For restricted spacing requirements Kennedy Valve manufactures a Wafer Check Valve that also helps to control water hammer.

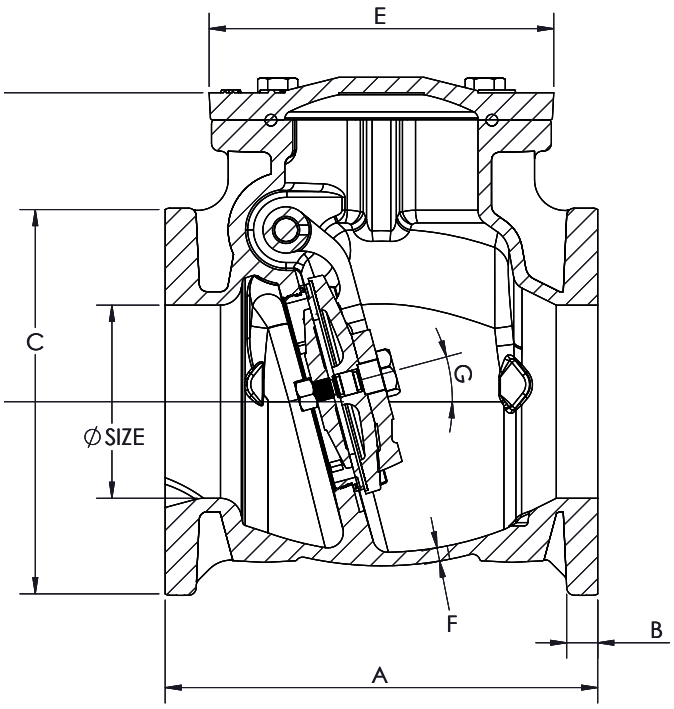


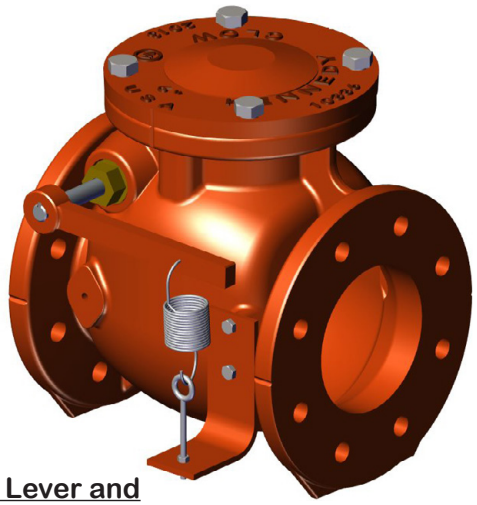
Figure 1106 Series	2”-12”
Test Pressure- Seat and Shell	400 PSI
Working Pressure- Non-shock CWP	200 PSI

Figure 106 Series	14”-36”
Test Pressure- Seat and Shell	300 PSI
Working Pressure- Non-shock CWP	150 PSI

Swing Check Valve - A.W.W.A.

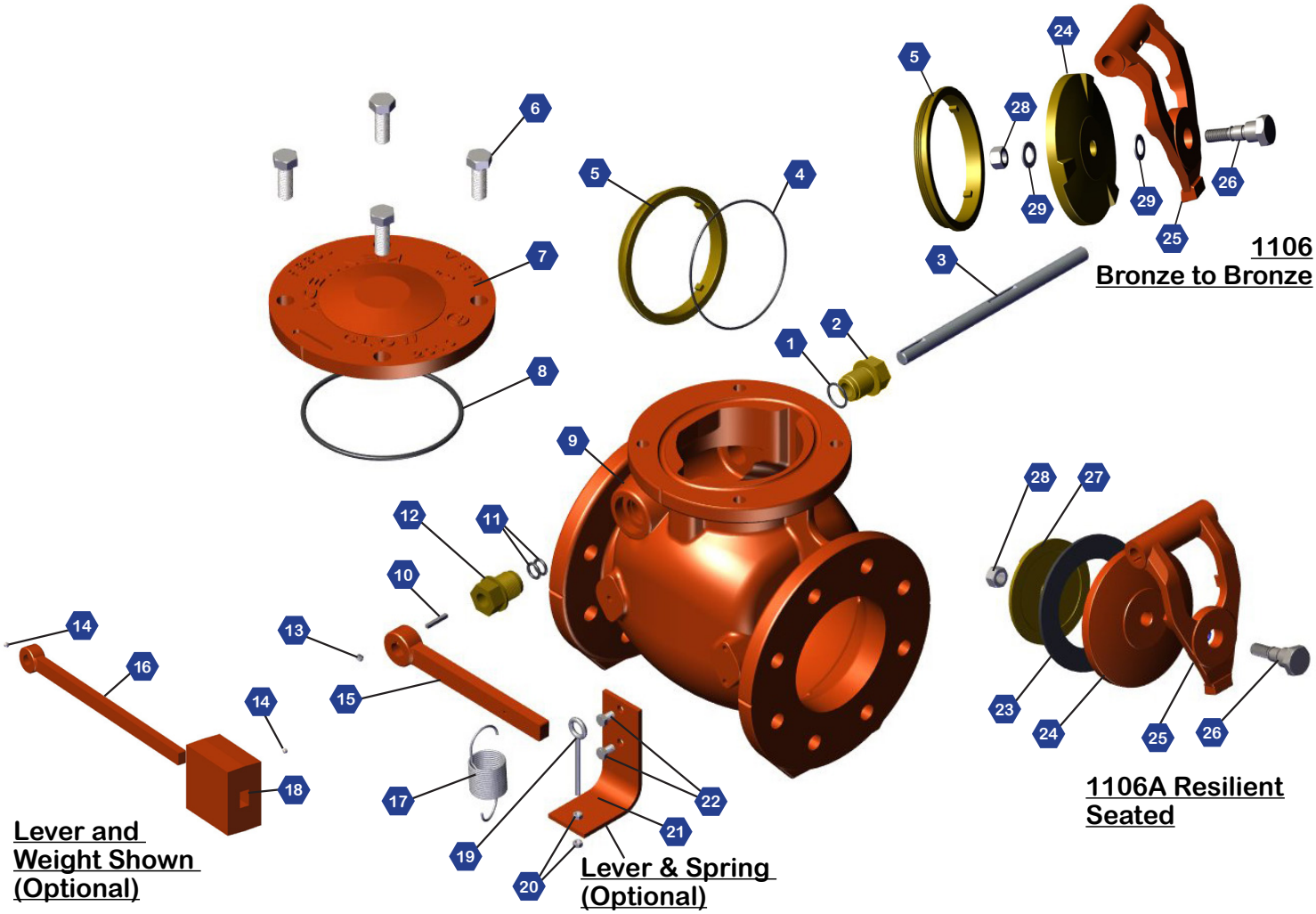
- Figure 1106 Series NSF Listed.
- Stainless steel hinge pin.
- Working parts are removable through the top of the valve.
- Tapped bosses available.
- Available with optional lever-and-spring or level-and-weight.
- Bronze side plug or seal gland nut construction.
- Bodies are made of high strength cast iron with reinforced flanges - ANSI B 16.1/125 # flanges.
- May be installed in a vertical line with the flow up.
- 1106A Resilient Seat is an absolute seal.
- Figure 1106 - Bronze Seated (Plain)
- Figure 1106LW - Bronze Seated (with Lever and Weight)
- Figure 1106A - Resilient Seated (Plain)
- Figure 1106AW - Resilient Seated (with Lever and Weight)
- Figure 1106LS - Bronze Seated (with Lever and Spring)
- Figure 1106AS - Resilient Seated (with Lever and Spring)

Figure 1106 Standard Dimensions							
SIZE	A	B	C	D	E	F	G
2”	8.0	0.65	6.0	6.00	6.56	0.34	10
2 1/2”	8.5	0.69	7.0	6.44	6.56	0.41	8
3”	9.5	0.78	7.5	6.85	6.56	0.44	8
4”	11.5	1.00	9.0	8.69	9.00	0.41	12
6”	14.0	1.03	11.0	10.51	11.00	0.43	15
8”	19.5	1.25	13.5	12.56	13.50	0.75	15
10”	24.5	1.31	16.0	14.07	16.75	0.81	15
12”	27.5	1.38	19.0	16.13	19.00	0.87	15



6” Lever and Spring Shown

SWING CHECK VALVE COMPONENTS



NO.	DESCRIPTION	MATERIAL	NO.	DESCRIPTION	MATERIAL
1	Side Plug O-Ring	Rubber	16	Level Arm for LW	Steel
2	Side Plug	Bronze	17	Spring	Steel
3	Extended Hinge Pin for LS / LW	Stainless Steel	18	Weight	Steel
4	Body Seat O-Ring	Rubber	19	Eye Bolt	Steel
5	Body Seat Ring	Bronze	20	Eye Bolt Hex Nuts	Stainless Steel
6	Cap Bolts	Stainless Steel	21	Bracket	Steel
7	Cap	Cast Iron	22	Hex Head Bracket Bolt	Steel
8	O-Ring	Rubber	23	Disc Seat	Rubber
9	Body	Cast Iron	24	Disc Plate	Bronze
10	Key Way	Stainless Steel	25	Hinge	Bronze
11	Stuffing Gland O-Rings	Rubber	26	Disc Bolt (4”-12”)	Bronze (2”-3”) Steel (4”-8”)
12	Stuffing Gland	Bronze	27	Disc Plate	Bronze
13	Set Screw	Stainless Steel	28	Disc Nut	Stainless Steel
14	Set Screw for LW	Stainless Steel	29	Disc Gasket Bolt	Stainless Steel
15	Level Arm for LS	Steel			

UL/FM Swing Check Valve - Figure 1126 Series

Kennedy Swing Check Valves are for use o ensure flow in one direction. The metal-to-metal seat is designed with ample tolerances to compensate for seat ring wear. The spinning action of the disc creates a regrinding effect that cleans the seat ring of foreign particles. The disc is also self-adjusting. The Resilient Seated 1126A works as an “absolute seal” and softens the closing effect. All moving parts of these valves are bronze to bronze, minimizing wear and corrosion problems.

Kennedy UL / ULC-FM check valves can be installed in the horizontal or vertical orientation. The 1126 and 1126A are available tapped for easy installation of gauges at up to six locations. The disc design facilitates spinning and thus renewable seating performance during normal operation. Our modern cover design allows for simple inspection and service utilizing a tapped body, eliminating nut and bolt combinations seen on older products. We also use an O ring system for modern and superior cover seating performance.

NYC MEA approved.

Seat Construction

- 1126 - Metal Seated, UL/FM Approved
- 1126A - Resilient Seated, UL/FM Approved

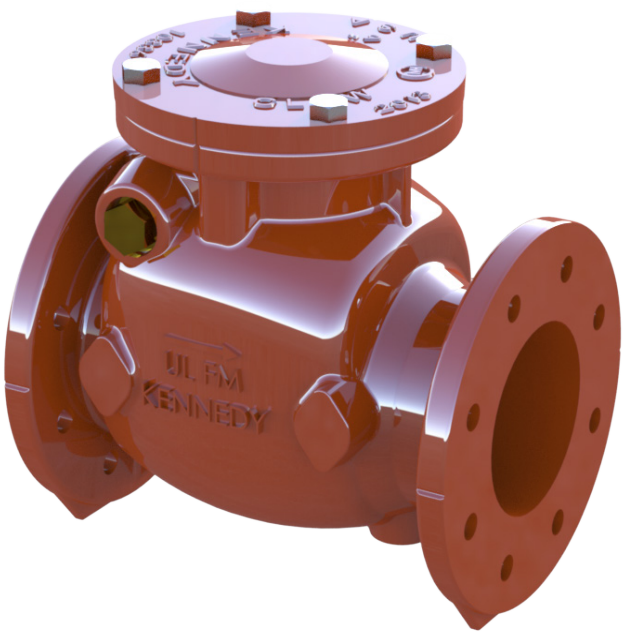
Working Pressure

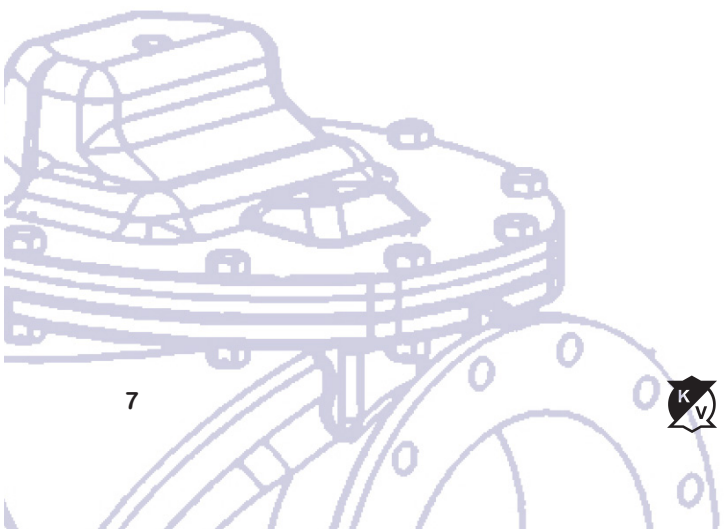
Cold water, non-shock, 175 lbs. (2 1/2”-12”)

Hydrostatic Test Pressure

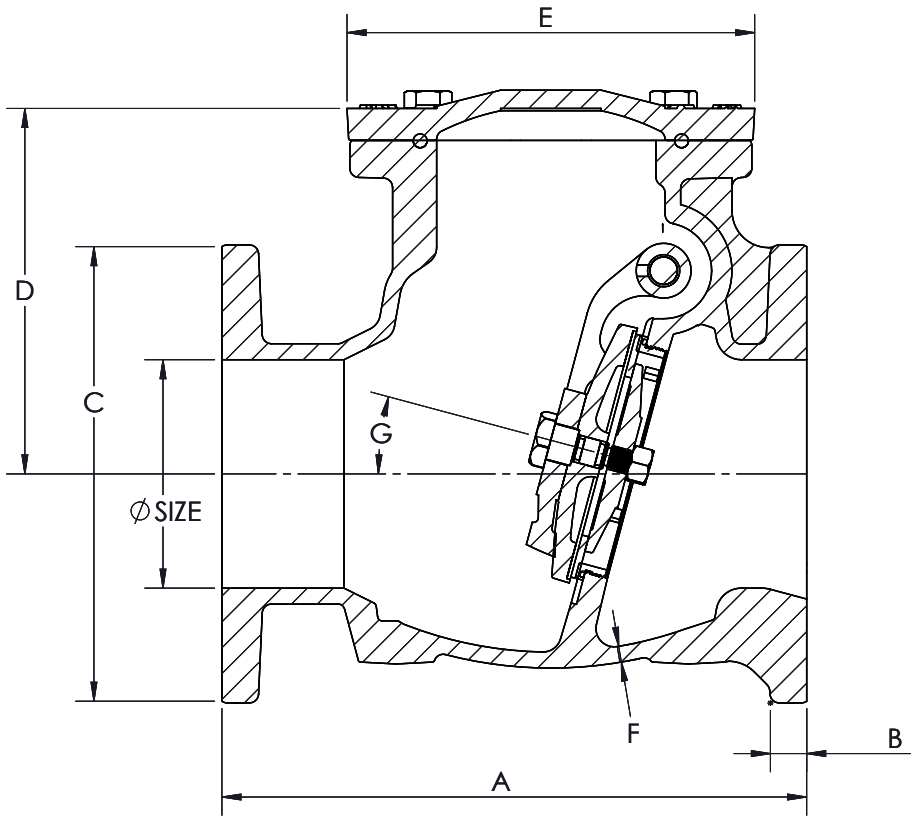
Seat and shell, 350 PSI. (2 1/2”-12”)

6” 1126 shown





UL/FM SWING CHECK VALVE - FIGURE 1126



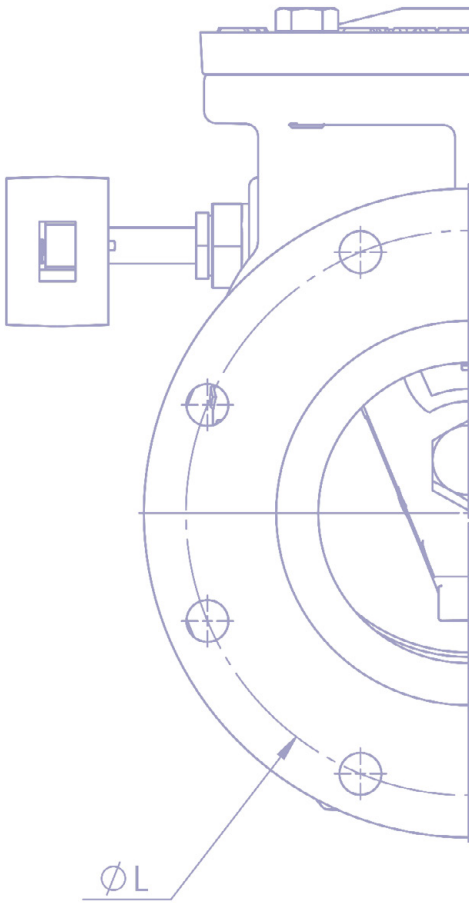
All dimensions shown in Inches

Figure 1126 & 1126A Standard Dimensions								Weight	
SIZE	A	B	C	D	E	F	G	1126	1126A
2-1/2	10	11/16	7	6-7/16	7	1-3/32	10.0	52 lbs.	53 lbs.
3	10-1/4	3/4	7-1/2	6-5/8	7-1/2	7/16	8.0	62 lbs.	62 lbs.
4	13	15/16	9	8-7/16	9	1/2	8.0	114 lbs.	117 lbs.
6	16	1	11	10-1/8	11	5/8	12.0	193 lbs.	196 lbs.
8	19	1-1/8	13-1/2	11-7/8	13-1/2	3/4	15.0	319 lbs.	322 lbs.
10	22	1-3/16	16	13-5/16	16-3/4	1-3/16	15.0	475 lbs.	480 lbs.
12	26	1-1/4	19	15-3/16	19	7/8	15.0	680 lbs.	685 lbs.

INCREASING CHECK VALVE – FIGURE 1306

Increasing Check Valve Function - Figure 1306 Series

The Kennedy Valve Figure 1306 Increasing Check Valve utilizes the same components as Figures 1106 Check Valves. The 1306 adapts from a smaller to a larger diameter pipe, using a threaded adapter that is also welded in place.

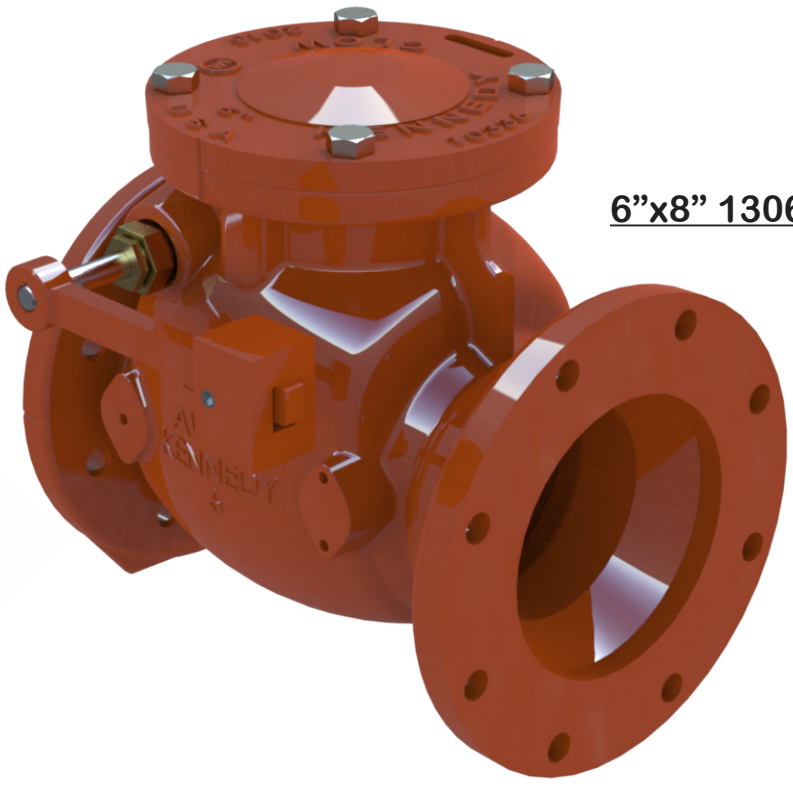


FEATURES

- A.W.W.A. C508
- NSF Listed
- 200 PSI Working Pressure / 400 PSI Test Pressure
- Available in sizes: 4x6, 4x8, 6x8, 6x10, 8x10, 8x12, 10x12
- Resilient Seat (Rubber Disk, Bronze Seat) Ring

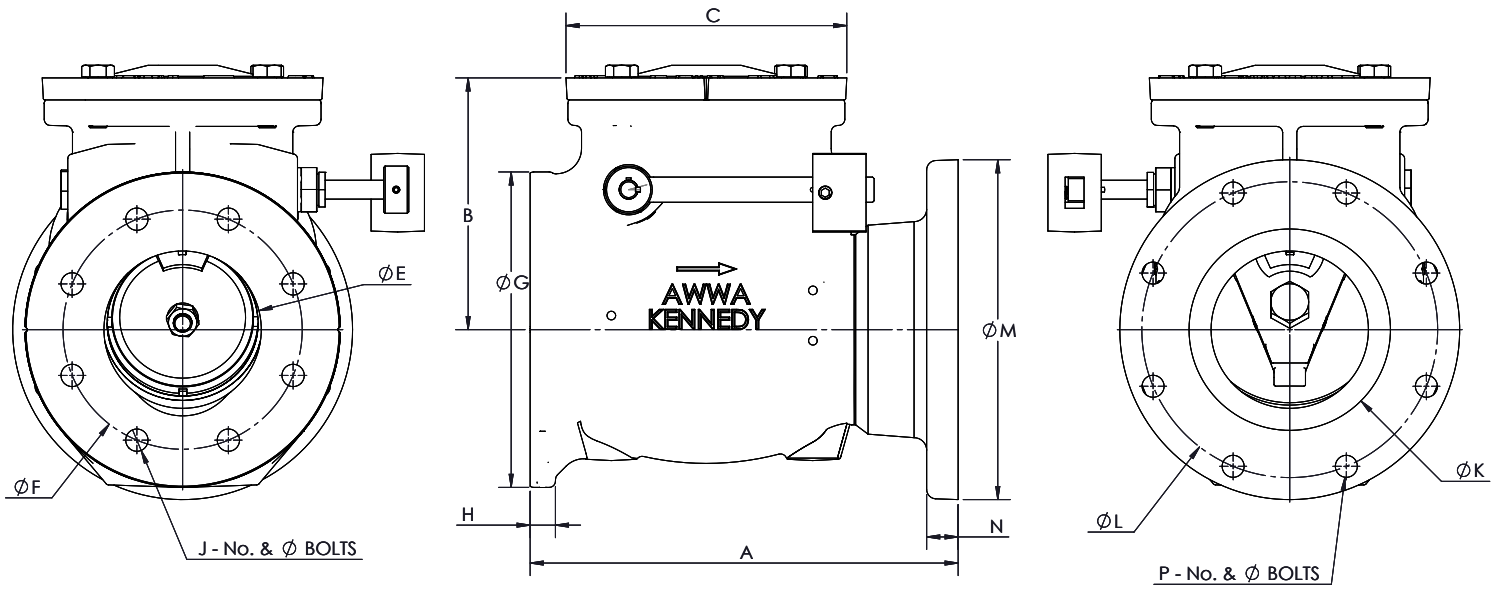
Available in the following configurations:

- Figure 1306 - Bronze Seated (Plain)
- Figure 1306LW - Bronze Seated (with Lever and Weight)
- Figure 1306A - Resilient Seated (Plain)
- Figure 1306AW - Resilient Seated (with Lever and Weight)
- Figure 1306LS - Bronze Seated (with Lever and Spring)
- Figure 1306AS - Resilient Seated (with Lever and Spring)



6”x8” 1306LW SHOWN

INCREASING CHECK VALVE – FIGURE 1306



Increasing Check Valve Standard Dimensions

All dimensions shown in Inches

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P
4x6	13.50	8.31	9.00	8.19	4.00	7.50	9.00	0.94	8-0.63	6	9.50	11.00	1.00	8-0.75
4x8	15.00	8.31	9.00	8.19	4.00	7.50	9.00	0.94	8-0.63	8	11.75	13.50	1.13	8-0.75
6x8	17.00	10.06	11.00	9.00	6.00	9.50	11.00	1.00	8-0.75	8	11.75	13.50	1.13	8-0.75
6x10	17.50	10.06	11.00	9.00	6.00	9.50	11.00	1.00	8-0.75	10	14.25	16.00	1.19	12-0.88
8x10	20.00	12.38	13.50	10.19	8.00	11.75	13.50	1.13	8-0.75	10	14.25	16.00	1.19	12-0.88
8x12	21.00	12.38	13.50	10.19	8.00	11.75	13.50	1.13	8-0.75	12	17.00	19.00	1.25	12-0.88
10x12	22.50	13.93	16.75	11.63	10.00	14.25	16.00	1.19	12-0.88	12	17.00	19.00	1.25	12-0.88

AIR CUSHION CHECK VALVE – FIGURE 1206

Air Cushion Check

If possible, it is preferable to eliminate water hammer. The best way to eliminate water hammer is in the design of a piping system. For most cases where water hammer exists it is preferable to reduce its effects by causing the check valve to close so quickly that the flow is not able to reverse. Kennedy Valve makes a Figure 806 Wafer Check Valve that is intended as an anti-war hammer valve.

In some cases the customer may want an arrangement that retards the closing of the check valve. The customer may want such an arrangement for those cases where the water column actually has an opportunity to reverse or even separate, such as might occur when the check valve is not at the lowest elevation in the system.

For those customers, Kennedy Valve makes available the Figure 1206 Cushion Check Valve. The Figure 1206 Cushion Check Valve is a Figure 1106, AWWA valve with a lever and weight and a pneumatic cylinder arrangement. The pneumatic cylinder has a needle relief valve that allows the customer to adjust the time required for the valve to close.

The Figure 1206 Check Valve may be ordered from the factory either as flow horizontal or flow up. The cylinder arrangement is available mounted on either side unless specified the Figure 1206 valve will be supplied with the cylinder on the right side (when facing the inlet) and for horizontal flow.

The Figure 1206A has internal components identical to the Figure 1106A except that the hinge pin is made from heat treated, type 431 stainless steel and is unique to the Air Cushion Check valve.

- Resilient Seated “1206A” Standard

(Must specify vertical or horizontal installation when ordering)

Pressure Seating

Test Pressure (Seat and Shell) - 400 PSI

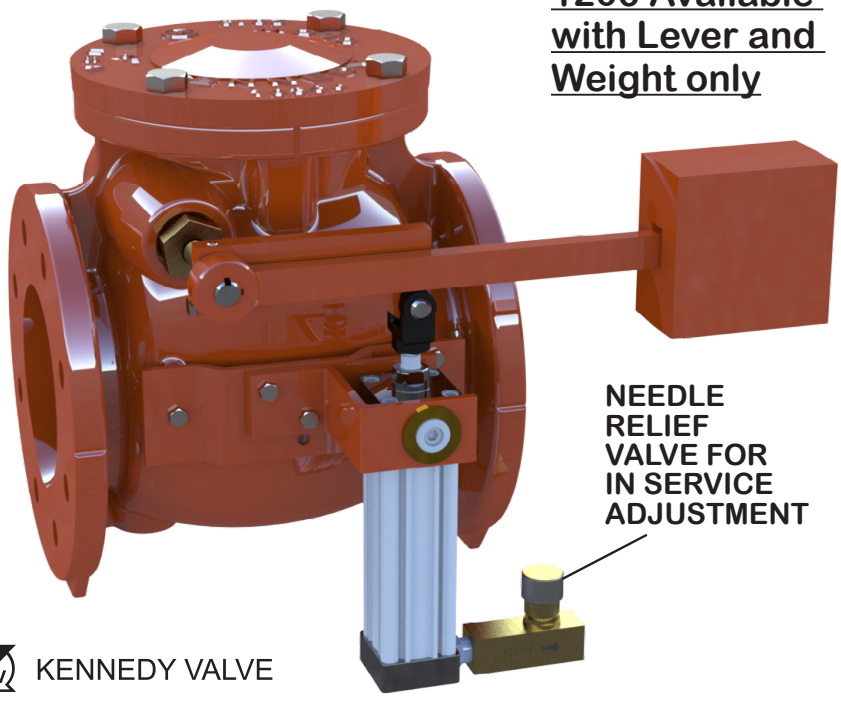
Working Pressure - 200 PSI

Features

- Available in sized 4”-12”
- NSF Listed
- A.W.W.A. C508

***Refer to Pg. 5 for Standard Dimensions.**

1206 Available with Lever and Weight only



OIL CUSHION CHECK VALVE – FIGURE 1606

Oil Cushion Check

The purpose of the introduction of an oil cushion on a swing check valve is to reduce line surge and water hammer. This is accomplished by having the disc stroke speed fully controllable from adjustment of the flow control valve. As the disc changes position, oil flowing through the closed system with accumulator causes cushioning of the disc as it closes. Although the closing speed is fully adjustable, many customers prefer a fast closing operation to deter the water momentum back against the closing disc.

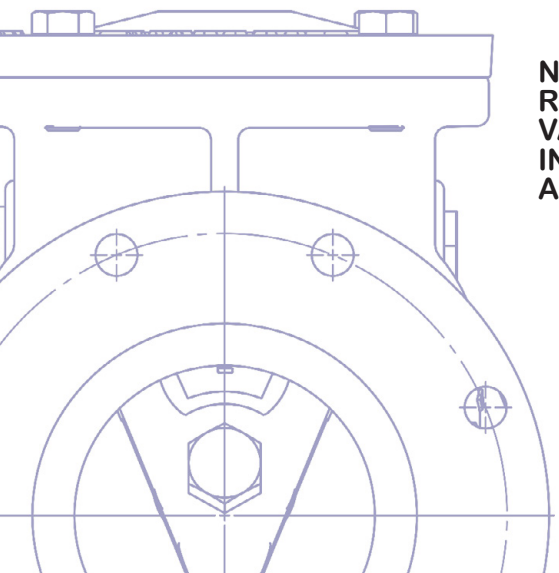
***Refer to Pg. 5 for Standard Dimensions.**

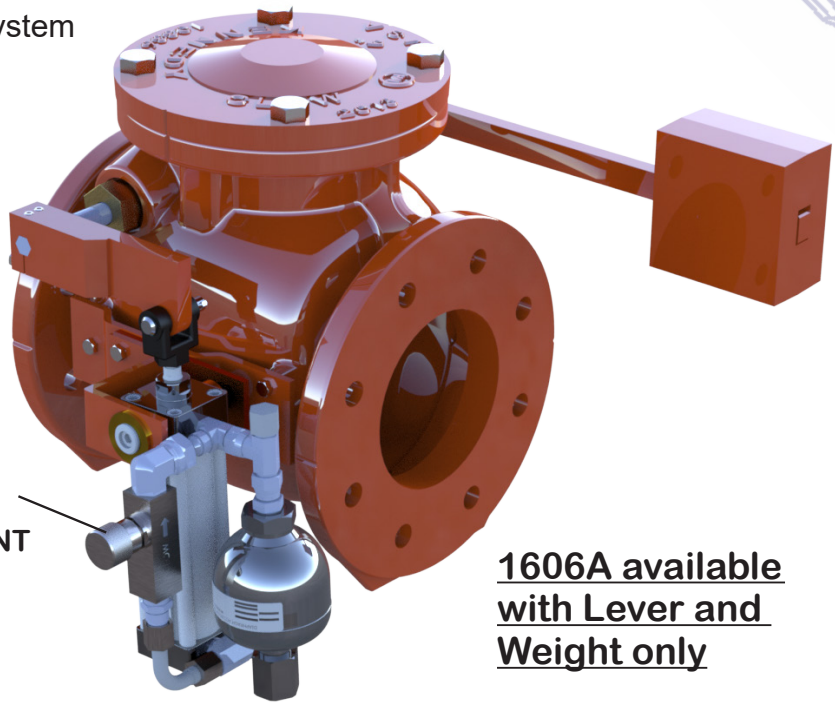
Oil Cushion Check Valve Features

- 3”-12” sizes available
- A.W.W.A. C508
- NSF Listed
- ASME B16.1 Class 125 Flanges
- Full waterway
- High strength corrosion-resistant hinge pin
- Valve may be installed in vertical line (Flow Up)
- Internal working parts are removable through top of valve
- Interior / exterior fusion-bonded epoxy
- Enclosed oil cushion system with accumulator
- Disc movement controlled through closed oil system with adjustable speed control valve when closing
- Opens freely as reversible oil flow passes through check / flow control valve
- Close speed adjustable through flow control valve
- Stainless steel hardware throughout system
- Resilient Seated “1606A” Standard

Pressure Seating

Test Pressure (Seat and Shell) - 400 PSI
Working Pressure - 200 PSI



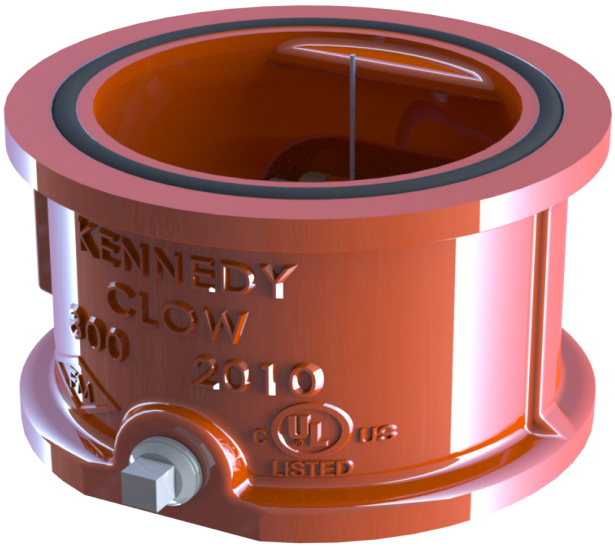


NEEDLE RELIEF VALVE FOR IN SERVICE ADJUSTMENT

1606A available with Lever and Weight only

Wafer Check Valve - Figure 806

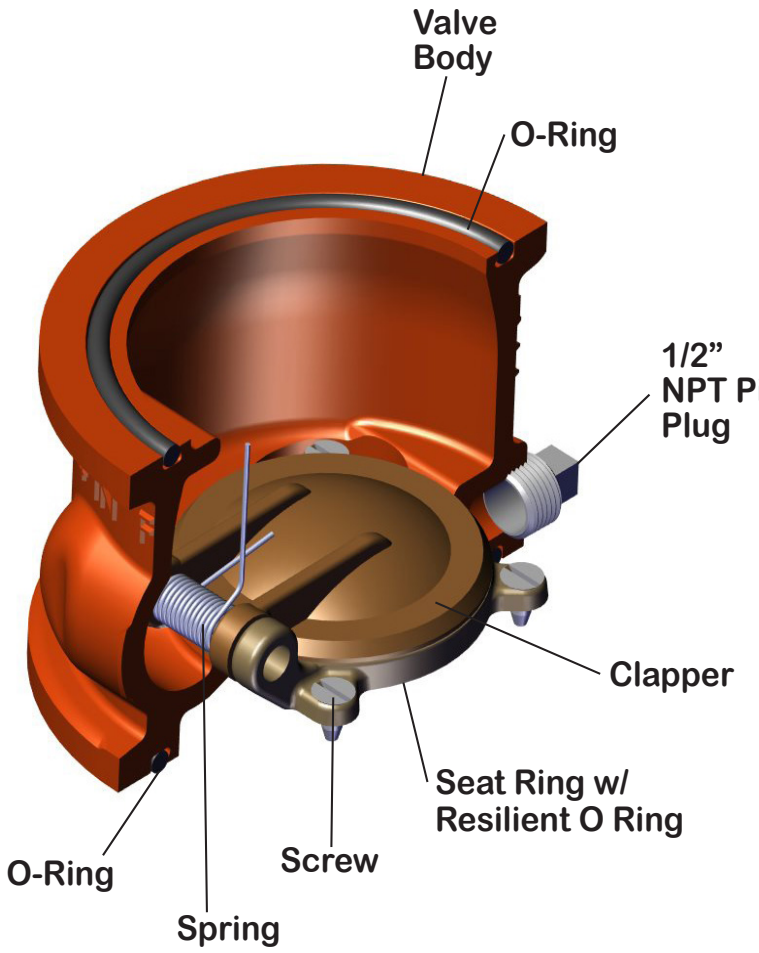
The Kennedy Wafer Check Valve is a NSF Listed compact design for installation between standard ASME B16.1 class 125 or class 150 flanges. A spring loaded aluminum bronze clapper, resilient seat, and o-ring design are used to ensure a quality seal at the seat. Wafer Check Valves sizes are available in 4 inch, 6 inch, and 8 inch.

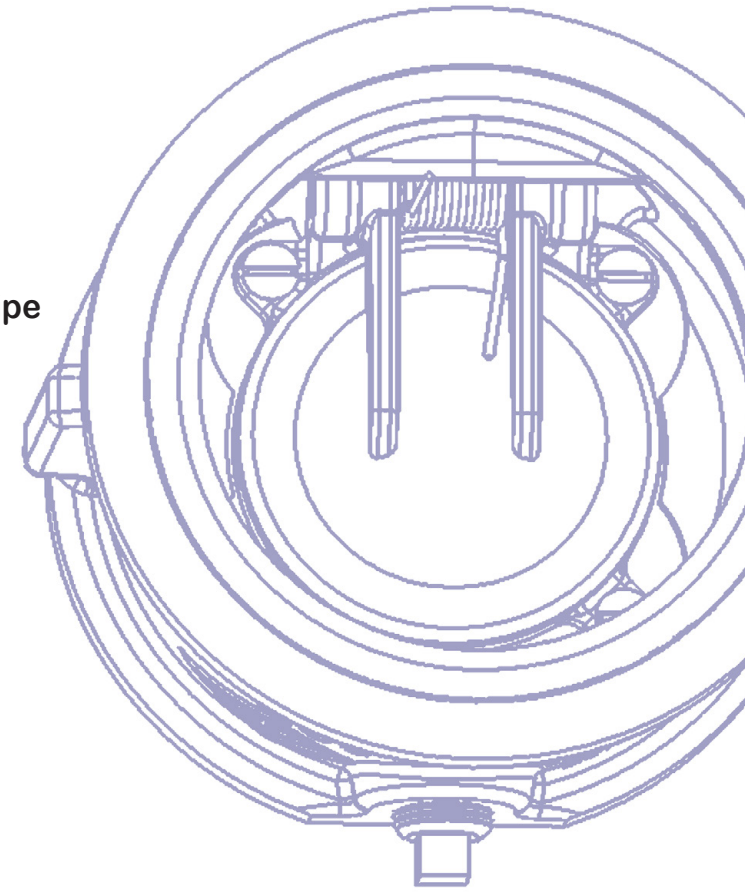


- UL Listed
- Listed with FM as a Water Hammer Dampening Valve.

Working Pressure & Hydrostatic Test Pressure

- 300 PSI. working pressure.
- Seat and shell, 600 PSI. non-shock



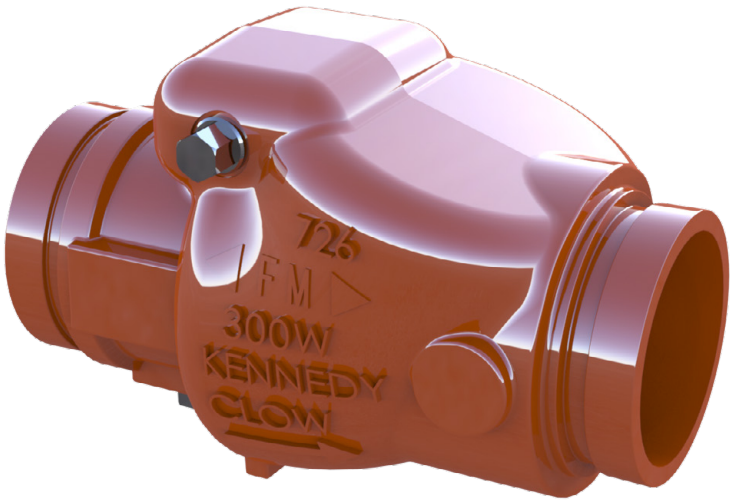


Enclosed Check Valve - Figure 726

The Kennedy figure 726 Grooved end swing check valve is a lightweight unit that is intended to be easily installed with approved grooved couplings. They may be installed either with the flow in a vertical position (flow up) or horizontally

Upon request valves can have a 1/2” NPT connection on the inlet side for installation of a 1/2” ball drip.

- UL/FM Listed

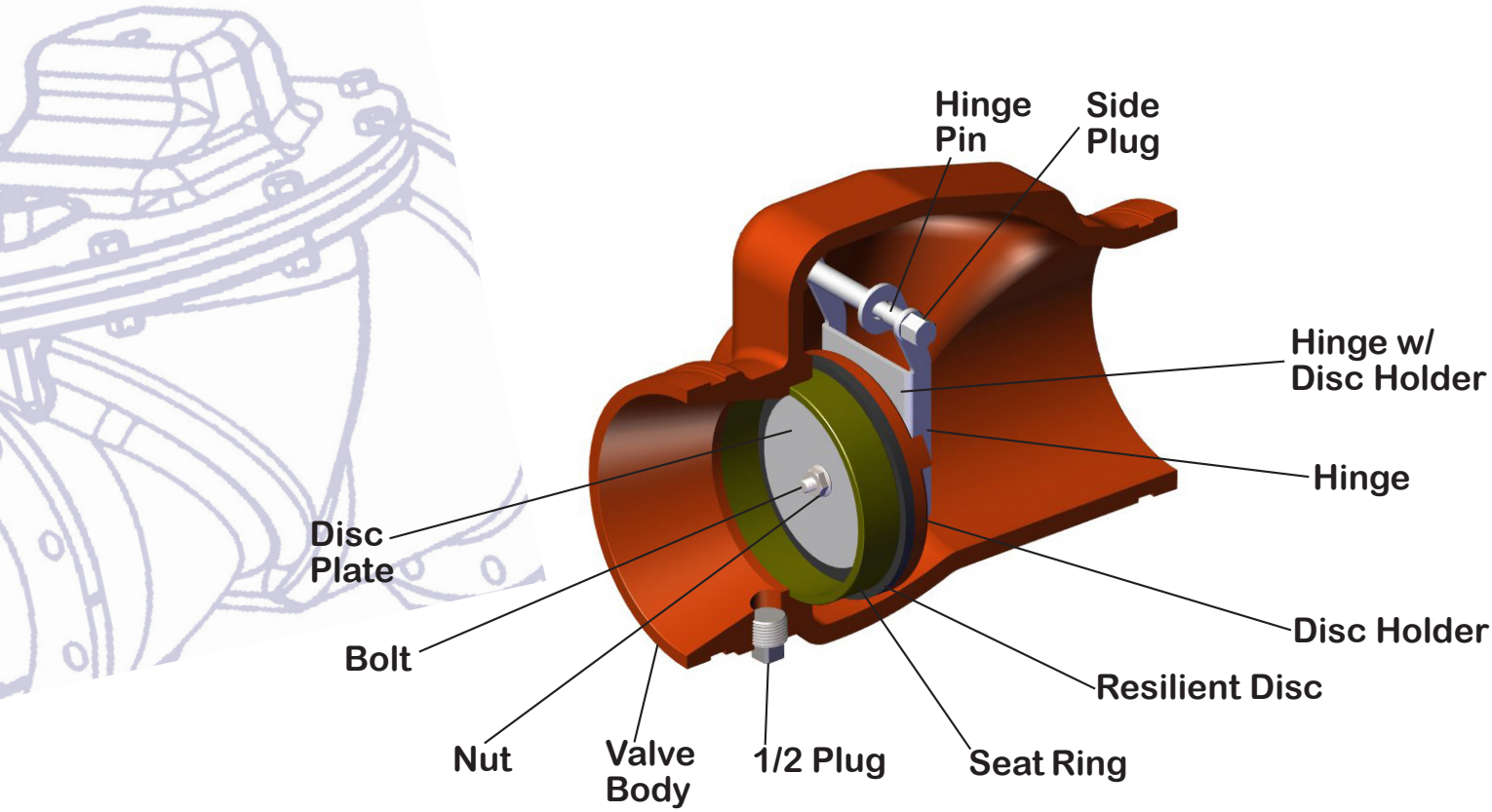


Sizes & Weight

- 2 1/2”- 15 lbs.
- 3” - 20 lbs.
- 4” - 25 lbs.
- 6” - 50 lbs.
- 8” - 68 lbs. (requires lifting lug.)

Working Pressure

300 PSI. working pressure.



Kennedy Valve began operations in 1877 in Lower Manhattan, N.Y. In 1890, the operation was moved to Coxsackie, and then in 1907, Kennedy Valve moved to Elmira, N.Y., where it remains a cornerstone of the community.

In the 135 plus years since its founding, Kennedy Valve has expanded to be a full-line waterworks valve and hydrant manufacturer, supplying resilient seated gate valves, fire hydrants, check valves, butterfly valves, indicator posts, grooved butterfly valves and an assortment of related products and appurtenances.

Kennedy Valve and its employees are dedicated to supplying quality products that meet or exceed current specifications to ensure customer satisfaction. We pride ourselves on being easy to do business with and providing superior customer service backed by knowledgeable and courteous employees.

Kennedy Valve products stand the test of time in reliability. Our goal is to supply the highest quality products with the shortest lead times at a competitive price, while at the same time remaining a good steward of the environment and maintaining a safe workplace for our most valued asset, Kennedy Valve's employees.

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M C WANE For Generations

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